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SOURCE Newspapers as indicated.

URGE WIDER USE OF CONTACT WELDING;  
BUILD WELDING MACHINES, TRANSFORMERS,  
GENERATORS, SWITCHES FOR CONSTRUCTION PROJECTS

ELEKTRIK PLANT TRIES NEW APPARATUS, METHODS -- Leningradskaya Pravda, 21 Mar 51

In 1950, the Leningrad Elektrik Plant developed and organized the production of a synchronous circuit-breaker for welding current, an apparatus for condenser welding of aluminum alloys and steels, a special automatic machine for impulse welding of spark plugs (avtosvechey), the RVE-9 electronic regulator, an apparatus for welding by means of the energy accumulated in an electromagnetic field, an equalizer for welding current, and other equipment.

Contact welding has not received due attention from Leningrad institutes and scientific-engineering societies, and up-to-date literature on the subject is lacking. Contact welding has great economic significance in such processes as welding fittings for reinforced concrete construction, building all-metal railroad cars, and welding pipe, and should find wide application in these fields. Insufficient attention has been given to training special cadres for contact welding.

The situation is no better with regard to engineering-technical cadres who specialize in electric-welding equipment for contact welding. The Polytechnic Institute imeni M. I. Kalinin and the Leningrad Technical School of Welding turn out specialists who are not sufficiently acquainted with this type of welding.

Leningradskaya Pravda, 7 Apr 51

By the end of 1950, the Leningrad Elektrik Plant was producing  $1\frac{1}{2}$  times as much as it did in 1949.

The plant is now working on the casting of iron in chill molds. Conversion to chill molds in casting the collector sleeves for welding machines would save the enterprise 60 tons of metal yearly. Photochemical engraving of name plates and other plates for machines has been organized. The adoption of this method will mean a saving of 255,000 rubles yearly.

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SHIP WELDING EQUIPMENT TO PROJECTS -- Tashkent, Pravda Vostoka, 14 Apr 51

The Leningrad Elektrik Plant has shipped three railroad cars containing electric-welding machines to the Tsimlyansk GES project. Twenty-three improved machines ordered for the third quarter were assembled and shipped ahead of time.

Ashkhabad, Turkmenskaya Iskra, 25 Apr 51 .

The Elektrik Plant has shipped the first consignment of welding transformers, converters, aggregates for seam welding under a layer of flux, and hose automatic machines for joining hard-to-reach seams, to the Main Turkmen Canal and the Volga hydroelectric projects.

The plant is working on an apparatus for accumulating electric current which will perform high-quality welding for a tenth of a second without overloading the power line. The plant is also working on dynamos to supply current to electric-welding equipment.

Moscow, Pravda, 3 May 51

Three carloads of electric-welding machines have been shipped to the Tsimlyansk GES project by the Elektrik Plant ahead of schedule.

Leningradskaya Pravda, 23 May 51

In 4 months of 1951, the Elektrik Plant has shipped 135 units of electric-welding equipment to the construction projects, including 150 kilovolt-ampere butt-welding machines, aggregate welding machines, automatic machines for arc-welding, and various transformers.

Leningradskaya Pravda, 25 May 51

A group of designers from the Automatic Arc-welding Machines Bureau of the Leningrad Elektrik Plant have designed new automatic and semiautomatic welding machines with a regulator which mechanically adjusts the speed at which the electrode rod is fed. The new design simplifies the wiring diagram, eliminates the motor-generator group, and cuts the cost of the machine. Separating the electrode rod and the flux feed mechanisms makes the apparatus easier to transport.

Models of these machines which are being made in the plant's experimental shop will be completed in the near future. Later, the machines will be series produced and shipped to the construction projects.

PRODUCE TRANSFORMERS FOR PROJECTS -- Baku, Bakinskiy Rabochiy, 20 May 51

The Yerevan Electrical Repair Plant has shipped the first consignment of above-plan transformers to the Volga-Don Canal project. Thirty thousand meters of wire were shipped to the projects ahead of time.

The Yerevan Electrical Machine Building Plant is making a group of power transformers for the Kakhovka GES.

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Yerevan, Kommunist, 27 Apr 51

The Yerevan Electrical Machine Building Plant has cut the time required to assemble the TM-180/6 transformer from 45 hours to 37 hours, and the time required for assembling the TM-100/6 transformer from 35 hours to 29. Assembly time for the TM-30/10 transformer has been reduced 5 hours.

The plant will start the series output of the TM-100/6 transformer in April. It is preparing to produce two new transformers, the TM-180/10 and the TM-50/6.

Yerevan, Kommunist, 23 May 51

The Yerevan Electrical Machine Building Plant has shipped a consignment of new-type high-power transformers to the South Ukrainian Canal. The plant will ship 40 transformers to the Volga-Don Canal project and ten transformers to the Stalingrad GES before the end of this month.

SHIP GENERATORS TO PROJECT -- Yerevan, Kommunist, 25 Apr 51

The Yerevan Machine-Building Plant has shipped 18 generators to the North Ukrainian and South Crimean Canal project.

SEND SWITCHES, TRANSFORMERS TO PROJECTS -- Leningradskaya Pravda, 1 May 51

The Leningrad Elektroapparat Plant has shipped more than 300 excellent-quality indoor and outdoor disconnecting switches and current transformers to the Kuybyshev GES.

Yerevan, Kommunist, 23 May 51

The Leningrad Elektroapparat Plant has received the first shipment of housings for oil and air switches from the Leningrad Proletariy Plant. The switches, which are  $4\frac{1}{2}$  meters high and  $1\frac{1}{2}$  meters in diameter, will be used for the Volga hydroelectric stations and for high-voltage transmission lines.

PLANT BUILDS TRANSFORMERS, MOTORS FOR PROJECTS -- Baku, Bakinskiy Rabochiy, 22 May 51

The personnel of the Baku Electromechanical Plant (BEMZ) have promised to turn out the transformers for the Main Turkmen Canal no later than 8 April 1951 (that is, 2 months and 3 weeks ahead of time), to fill all the orders for the projects ahead of time, and to turn out only excellent-quality production.

In the first quarter 1951, the plant shipped transformers to the Kuybyshev, Volga-Don, and Stalingrad construction organizations, and electric motors to the Volga-Don Canal project. A great number of electric motors have been shipped to the Melitopol' Pump and Compressor Plant, which in turn supplies the projects.

ORDER CONDENSERS FOR VOLGA-DON CANAL -- Moscow, Komsomol'skaya Pravda, 17 May 51

The Tyumen' Automobile Electrical Equipment Plant has received an order for 500 condensers from the Volga-Don Canal construction project.

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MAKE REACTORS, TRANSFORMERS FOR POWER LINES -- Riga, Sovetskaya Latviya, 14 Apr 51

The Riga Latvenergo Repair and Machinery Plant has organized the production of concrete reactors for power stations and substations. When a high-voltage line or cable breaks, a short circuit current of hundreds of thousands of amperes is set up. To prevent this current from damaging the generator, concrete reactors, which greatly reduce the power of the current, are installed.

The plant has also organized the production of 180-320 kilovolt-ampere power transformers

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